

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (As used on Label and List)

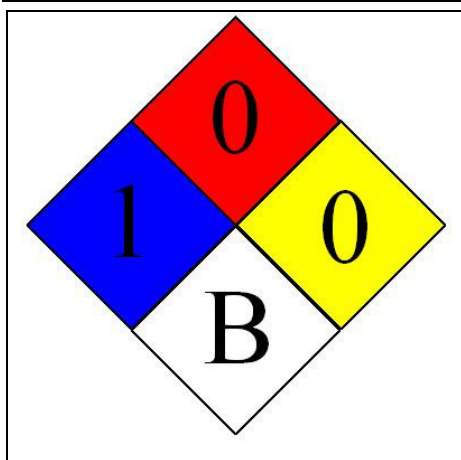
CHEM-CREST 10

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I – Product and Company Identification

| | |
|--|---|
| Manufacturer's Name CREST ULTRASONICS CORPORATION | Emergency Telephone Number (800) 424-9300 (Chemtrec) |
| Address (Number, Street, City, State, and ZIP Code) SCOTCH ROAD, TRENTON MERCER AIRPORT | Telephone Number for Information (609) 883-4000 |
| TRENTON, NJ 08628 | Last update: 23 March 2011 |

Section II – Hazards Identification



Emergency Overview:

Slightly hazy to clear near water white detergent liquid, slight amine odor

WARNING! Can cause skin irritation, may cause allergic skin reaction

May be harmful if swallowed. Can irritate and/or cause damage to eyes and skin.

Breathing of mist can cause irritation and damage to throat and respiratory system

Symptoms of expose are irritation of eyes, throat, skin, nasal passages

Recommended Personal Protective Equipment:

PVC-lined gloves, chemical splash goggles, good handling practices

Avoid splashing and spilling. Eye wash should be available in area.

Wash hands before handling food after using any chemical.

Section III – Composition / Information on Ingredients

| Hazardous Components (Specific Chemical Identity; Common Name(s)) | % ACTIVE | OSHA PEL | Other Limits Recommended | C.A.S. # |
|---|----------|---------------------|-------------------------------------|------------|
| COMPONENTS: | % ACTIVE | | | |
| PROPRIETARY NON/ANIONIC SURFACTANT BLEND | 30-35% | N/E | N/A | - |
| 2-METHYL-2, 4-PENTANEDIOL | 3-5% | N/A | LD50 (oral, rat): 3,000-7,000 mg/kg | 107-41-5 |
| COCONUT DIETHANOLAMIDE | 3-5% | N/E | N/E | 68603-42-9 |
| DIETHANOLAMINE | 1-2% | 2 mg/m ³ | LD50 (oral, rat): 710 mg/kg | 111-42-2 |
| PROPRIETARY INGREDIENTS, INERT | balance | NONE | NONE | - |

Section IV – First Aid Measures

General Advice:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Contact with eyes:

Flush with water for at least 20 minutes, lifting upper and lower lids occasionally. See a physician immediately.

If swallowed:

Give two large glasses of water. Do not induce vomiting. See a physician.

If inhaled:

Remove to fresh air. Give oxygen if necessary. See physician.

Skin contact:

Wash off with plenty of soap and water. Consult a physician.

Section V – Fire-fighting Measures

Suitable extinguishing media:

Water spray, alcohol-resistant foam, dry chemical, carbon dioxide

Protective equipment for fire-fighters:

Use self-contained breathing apparatus (SCBA) when necessary

Section VI – Accidental Release Measures

In case of a leak or spill:

Completely isolate the area of the leak or spill. Remove all non-necessary personnel from the area. Dyke the spilled material with sand, earth, or absorbent material. Soak up or suction material to drums, following all recommendations in Section VIII – Personal Protective Equipment of this MSDS. If possible, avoid draining to sewage and waterways. Material is slippery.

Section VII – Handling and Storage

Handling of material:

Avoid contact with eyes, skin, clothing, and other exposed areas of the body. Avoid inhalation of vapor or mist. Use standard measures for fire-fighting purposes. Eye wash should be available in area where product is used. Ensure use of proper personal protective equipment when handling any chemical.

Storage of material:

Keep material in container, tightly closed, in a dry environment. Do not allow to freeze. Follow all appropriate grounding and bonding procedures during use of any chemical. Follow all appropriate lockout / tagout procedures in all areas. Do not allow access of unauthorized personnel to chemical storage areas. Observe all local, state, and federal regulations. Material may be repackaged in steel, poly, or aluminum containers.

Section VIII – Exposure controls / Personal Protective Equipment

Engineering Controls:

In areas where deemed necessary, investigate all engineering controls and techniques in order to reduce risk of exposure to any chemical. Provide necessary ventilation. If necessary, use local exhaust ventilation at sources of air contamination. Consult ACGIH ventilation manual or NFPA Standard 91 for exhaust system designs.

Face and Eye Protection:

The use of chemical splash / safety goggles is highly recommended, along with accessibility to eye wash stations. If necessary, provide workers with chemical full-face shields. Any long hair should be firmly held behind or on top of the head to avoid exposure.

Skin Protection:

The use of chemically-resistant clothing and PVC-lined, latex, or Nitrile gloves is highly recommended for use with this product. Consult with glove manufacturers for a list of gloves acceptable for use with any chemical. If necessary, wear full-face shield and rubber aprons with use of chemicals. Wash all clothing that has been exposed to chemicals before reuse.

Respiratory Protection:

Avoid inhalation of vapor from product. When exposure limits in a given area exceed set values, use NIOSH approved respiratory protection. Consult with respiratory protection equipment manufacturer for types of equipment suitable for each chemical. Respiratory protection must comply with 29 CFR 1910.134. When emergency conditions are presented, evacuate areas affected and use appropriate safety measures for respiratory protection such as, but not limited to, self-contained breathing apparatus, air-line respirator, full-face respirator, or other approved methods for each given chemical.

Section IX – Physical and Chemical Properties

| | |
|------------------------------------|--|
| Appearance / Odor | Slightly hazy to clear near water white, detergent liquid, slight amine odor |
| pH (100%) | 10.0 ± 0.5 |
| Specific Gravity | 1.03 ± 0.05 |
| Vapor Pressure | N/A |
| Vapor Density | N/A |
| Freezing Point | <32°F/0°C |
| Boiling Point: | >212°F / 100°C |
| Solubility in Water | complete |
| Flash Point | N/A |
| Expansion Rate (butyl acetate = 1) | N/A |

Section X – Stability and Reactivity

| | | | |
|-----------|----------|---|---|
| Stability | Unstable | | |
| | Stable | X | This chemical is stable under anticipated normal operating conditions |

Incompatibility (Materials to Avoid): None known

Hazardous Decomposition or Byproducts: None known

| | | | |
|--------------------------|----------------|---|---|
| Hazardous Polymerization | May Occur | | |
| | Will Not Occur | X | This chemical will not undergo hazardous polymerization under anticipated normal operating conditions |

Section XI – Toxicological Information

N/E

Section XII – Ecological Information

N/E

Section XIII – Waste Disposal

Always dispose of all chemicals via State, Local, and Federal Regulations. *Any processing done with the use of this chemical in which any substances are added to this material may make this waste management information inaccurate. Local laws must always be consulted when considering waste disposal.*

Section XIV – Transportation Information

US Department of Transportation (DOT)

NOT REGULATED

ICAO/IATA

NOT REGULATED

IMDG

NOT REGULATED

Harmonization Code

3402.20.xxxx

Section XV – Regulatory Information**OSHA Hazard Communication Standard**

This product contains “Hazardous Chemicals” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Acute hazard, chronic hazard

SARA Title III, section 313

Diethanolamine (CAS # 111-42-2) is subject to regulation under SARA Title III, section 313.

TSCA Section 8(b)

All of the components of this product are listed on the TSCA Inventory

CERCLA Reportable Quantities

None

Section XVI: Other Information

Chem Crest Chemical MSDS are available on via website, <http://www.crest-ultrasonics.com>

MSDS Prepared by: Charles P. Kaczorek, Technology Department Manager

Date of preparation: 23 March 2011

Legend:

N/A – Not Applicable

N/E – Not Established

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED, RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT AND APPLICABLE TO THEIR CIRCUMSTANCES. CREST CHEMICALS SHOULD ONLY BE HANDLED BY APPROPRIATE PERSONNEL. CREST ULTRASONICS HOLDS NO WARRANTY, EXPRESS OR IMPLIED, RESULTING FROM THE MISUSE OF CHEMICALS. ALL USERS OF THIS CHEMICAL SHOULD BE PROVIDED WITH A COPY OF THIS MSDS ALONG WITH ADEQUATE TIME TO REVIEW IT PRIOR TO USE OF THE CHEMICAL.
